

FIGURE 1A

1 GNTCTAGAAN TAGTGATCC CCGCGGGCTG CAGGAATTCC GACGGCCCTT GGAAGGGCTC TGGTGGGGCT GAGCGCTCTG CCGCGGGGGC GCGGGCACAG
 CNAGATCTTN ATCACTTAGG GGGGCCCGAC GTCTTAAGG CTGCGGGGA CTTCCCGAG ACCACCCCGA CTGCGGAGAC GCGCGCCCCG CCGCGTGTG
 101 CAGGAAGCAG GTCCCGCTGG GCGCTGGGG CATCAGCTAC CCGGTGGTC CGGGCTGAAG AGCCAGGCAG CCAAGGCAGC CACCCCGGGG GGTGGGCGAC
 GTCCTTCGTC CAGGCGCAC CCGACCCCG GTAGTCGATG GCGCCACCG GCGCGACTTC TCGGTCCGTC GGTTCGTCG GTGGGGCCCC CCACCCGCTG
 201 TTTGGGGGAG TTGGTGCCCC GCGCGGGG CCGCGGGG GTCATGGGG CCGCCCATTC TGGGCCCGGG GCGGTGCGAG TCGGGGGCTT GCTGTGCTG
 AAACCCCTC AACACGGG CCGGGGGTCC GGAACCGGCC CAGTACCCCG GGGGGGTAAG ACCCGGCC CCGCAGCTC AGCCCCGGA CGACGACGAC
 1 MetGlyp roProHisSe rGlyProGly GlyValArgV alGlyAlaLe uLeuLeuLeu
 301 GGGGTTTGG GGCTGGTGTG TGGGCTCAGC CTGAGCCCTG TCTACTGGAA CTCGGCGAAT AAGAGGTTCC AGGCAGAGGG TGGTTATGTG CTGTACCCTC
 CCCCCAAACC CCGACACAG ACCCGAGTCG GACCTCGGAC AGATGACCTT GAGCCGCTTA TTCTCCAAGG TCCGCTCTCC ACCAATACAC GACATGGGAG
 20 GlyValLeuG lyLeuValSe rGlyLeuSer LeuGluProv alTyTrpAs nSerAlaAsn LysArgPheG lAlaGluG l yGlyTyTrVal LeuTyProGln
 401 AGATCGGGGA CCGGTAGAC CTGCTCTGCC CCGCGGCCCG GCCTCTCGC CCTCACTCCT CTCCTAATTA TGAGTTCTAC AAGCTGTACC TGGTAGGGG
 TCTAGCCCTT GCGCGATCTG GACGAGACCG GGGCCCGGGC CGGAGGACCG GGAGTGAGGA GAGGATTAAT ACTCAAGATG TTCGACATGG ACCATCCCCC
 54 IleGlyAs pArgLeuAsp LeuLeuCysp roArgAlaAr gProProGly ProHisSers erProAsnTy rGluPheTy rLysLeuTy rL euValGlyGly
 501 TGCTCAGGGC CCGCGCTGTG AGGCACCCCC TCCGTGGGG ACAGGCTTTC GAGGAAGAGT GAACACTAGC GGGCTGGAC CTAGAGGCGA AGTGGTAGTT CAAGGTCTC
 ACGAGTCCC GCGCGACAC TCCGTGGGG luAlaProPr oAlaProAsn LeuLeuLeuT hrCysAspAr gProAspLeu AspLeuArgp heThrIleLy sPheGlnGlu
 87 AlaGlnGly ArgArgCysG luAlaProPr oAlaProAsn LeuLeuLeuT hrCysAspAr gProAspLeu AspLeuArgp heThrIleLy sPheGlnGlu
 601 TATAGCCCTA ATCTCTGGG CCGAGGTC CCGTGCACC ACGATTACTA CATCATTTGCC ACATCGGATG GAGCCCGGA GGGCTGGAG AGCCTGCAGG
 ATATCGGGAT TAGAGACCCC GGTGCTCAAG GCGAGCGTGG TGCTAATGAT GTAGTAACCG TGTAGCCTAC CTGGGCCCTT CCGGACCTC TCGGACGTCC
 120 TyrSerProA snLeuTrpG l yHisGluPhe ArgSerHisH isAspTy rTy rIleAla ThrSerAspG lyThrArgG l uGlyLeuGlu SerLeuGlnGly
 701 GAGGTGTGTG CCTAACAGA GGCATGAAG TGCTTCTCCG AGTGGGACAA AGTCCCGGAG GAGGGGCTGT CCCCCGAAAA CCTGTGTCTG AAATGCCCAT
 CTCCACACAC GGATGGTCT CCGTACTTCC ACAGAGAGG TCACCTGTG TCAGGGGCTC CTCCCGGACA GGGGCTTTT GGACACAGAC TTTACGGGTA
 154 GlyValCy sLeuThrArg GlyMetLysV alLeuLeuAr gValGlyGln SerProArgG lyGlyAlaVa lProArgLys ProValSer l uMetProMet
 801 GGAAGAGAC CGAGGGGCGAG CCCACAGCCT GGAGCCTGG AAGGAGAACC TGCCAGGTGA CCCCACCGAG AATGCAACCT CCGGGGTGC TGAAGGCCCC
 CCTTCTCTG GCTCCCCGTC GGTGTGCGA CCGTGTGCGA CCGTGTGCGA CCGTGTGCGA CCGTGTGCGA CCGTGTGCGA CCGTGTGCGA CCGTGTGCGA
 187 GluArgAsp ArgGlyAlaA laHisSerLe uGluProGly LysGluAsnL euGlyVala l aLeuLeuLeu LeuGlyVala l aGlyAlaMet CysTrpArgArg
 901 CTGCCCCCTC CCAGCATGCC TGCAGTGGCT GGGGCGAGC GGGGCTGGC GCTGCTCTTG CTGGCGCTGG CAGGGGCTGG GGGTGCCATG TGTGGCGGA
 GACGGGGGAG GGTGCTACGG ACGTACCGA CCGCGTGGC CCGCGGACCG CGACGAGAAC GACCCGACC GTCCCGGACC CCCACGGTAC ACAACCGCTT
 220 LeuProProp roSerMetPr oAlaValAla GlyAlaAlaG lyGlyLeuAl aLeuLeuLeu LeuGlyVala l aGlyAlaMet CysTrpArgArg
 1001 GACGGCGGGC CAAGCTTCG GAGAGTCGCC ACCCTGGTCC TGGCTCTTC TGGAGGGGAG GGTCTCTGG CCGTGGGGGT GGAGGTGGGA TGGGACCTCG
 CTGCGCGCCG GTTCGGAAGC CTCTCAGCGG TGGGACCGG ACCGAGGAG CCGTCCCTC CCAGAGACCG GAGCCCGG CCGTCCCGCTT ACCCTGGAGC
 254 ArgArgAl aLysProSer GluSerArgH isProGlyPr oGlySerPhe GlyArgGlyG lySerLeuG l yLeuGlyGly GlyGlyGlyM etGlyProArg
 1101 GGAGGCTGAG CCTGGGGAGC TAGGATAGC TCTCGGGGT GCGGGGGCTG CAGATCCCC CTTCTGCC CCGTGTGCGG CACTATGAGA AGGTGAGTGG TGACTATGG
 CCTCCGACTC GGACCCCTCG ATCCCTATCG AGACGCCCA CCGCCCCGAC GTCTAGGGG GAAGACGGG GTGATACTCT TCCACTCACC ACTGATACCC
 287 GluAlaGlu ProGlyGluL euGlyIleAl aLeuArgGly GlyGlyAlaA laAspProPr oPheCysPro oPheCysPro Histy rGluL ysValSerG l yAspTy rGly

FIGURE 1B

1201 CATCCTGTGT ATATCGTGCA GGATGGGCC CCCAGAGCC CTCCAAACAT CTACTACACA TCGATTCTTG TGTGGAGTG GCCCATATTG CATACGATAC
 GTAGGACACA TATAGCACGT CCTACCCGG GGGGTCTCG GAGTTTGTGATGATGTGT AGCTAAAGAC ACAACCTCAC CGGGTATAAC GTATGCTATG
 320 HisProValT yrIleValGl naspGlyPro ProGlnSerP roProAsnIl eTyrTyrThr SerIleSerV alLeuGluTr pProIleLeu HisThrIleGln
 1301 AACTGTTTTT CATGCGATCC AAGTGCTCCC GTGTCACTAC ATTCTTATT CCTGTGCAAG TTATTACGAC ATCGACTTGC CGGATGACTT CATTTAGCTT
 TTGACAAAAA GTACGCTAGG TTCACGAGGG CACAGTGATG TAAGAATAAA GGACACGTTC TAGCTGAACG GCCTACTGAA GTAAATCGAA
 354 LeuPhePh eMetArgSer LysCysSera rgValThrTh rPheLeuPhe ProValGlnV alIleThrTh rSerThrCys ArgMetThrS erPheSerPhe
 1401 TACCACCCCTG AACCCATCCA TGCAGGCCCTG CAGAGCACAG ATGGGGGAAT TCCGAATCAG ATGGTGTTC TGGGGGACA GGATCCTGGG TACGGCTCTG
 ATGGTGGGAC TTGGGTAGGT ACGTCCGGAC GTCTCGTGC TACCCCTTA AGGCTTAGTC TACCACAAAG ACCCCCCTGT CCTAGGACCC ATGCCGAGAC
 387 ThrThrLeu AsnProSerM etGlnAlaCy sArgAlaGln MetGlyGluP heArgIleAr gTrpCysPhe TrpGlyAspA rgIleLeuGl yThrAlaLeu
 1501 TTTGTGCTTG TGCTTATTCT TCTTCTTGG AGCCTGAATA TGCATCAGAC GACACTGCTC CGGCAACGGG CCAGTGTGGA GGCGGAAGCC GGCCAGCATG
 AAACACGAAC ACGAATAAGA AGAAGAACC TCCGACTTAT ACGTAGTCTG CTGTGACGAG GCCGTGCCC GGTACACACCT CCGCTTCGG CCGTTCGTAC
 420 PheValLeuV alLeuIleLe uLeuLeuGly ArgLeuAsnM etHisGlnTh rThrLeuLeu ArgGlnArgA laSerValGl uAlaGluAla GlyGlnHisGly
 1601 GTCCCCCTGT ATAGGATTGA AAGAGCTACT GAGAATAGGG GGCTTCTCAA TGAGAGAGCG GAGGCTGCTG TTATCATGGG AACCAGGCAG ATCAATCATC
 CAGGGGACAC TATCCTAACT TTCTCGATGA CTCTTATCCC CCGAAGAGTT ACTCTCTCGC CTCCGACGAC AATAGTACCC TTGGTCCGTC TAGTTAGTAG
 454 ProLeu
 1701 CCTGGCAGGT CAGGCAGGAA GTTACTTAGC TTCTCCTTCA CCTTCTTCCC ACAGAATTTA TTATAGGCTT GTTCCAAGTT GTAGTGTGTG ATCAGATTCTG
 GGACCGTCCA GTCCGTCCCT CAATGAATCG AAGAGGAAGT GGAAGAAGGG TGTCITTAAT AATATCCGAA CAAGGTTCAA CATCACACAC TAGTCTAAGC
 1801 TGCTGCCTGT CAGCTCTGTG CTACCTGGCA GTTCCCCCTCA TGGAAATCGA TATCAAGCTT ATCGATACCG TCGACCT
 ACGACGGACA GTCGAGACAC GATGGACCGT CAAGGGAGT ACCTTAAGCT ATAGTTCGAA TAGCTATGGC AGCTGGA

FIGURE 2B

1101 GGAGGCTGAG CCTGGGGAGC TAGGGAATAGC TCTGGGGGGT GGCGGGGGTG CAGATCCCCC CTCTGCCCC CACTATGAGA AGGTGAGTGG TGACTATKGG
 287 CTTCCGACTC GGACCCCTCG ATCCCTATCG AGACGCCCCA CGGCCCGGAC GTCTAGGGGG GAAGACGGGG GTGATACTCT TCCACTCACC ACTGATACCC
 320 GluAlaGlu ProGlyGluL euGlyLeuL aLeuArgGly GlyGlyAlaL IaAspProPr oPheCysPro HisTyrluL ysValSerG1 yAspTyrlGly
 1201 CATCCCTGTGT ATATCGTGCA GGATGGGCCC CCCCAGAGCC CTCCAAACAT CTACTACAAG GTATGAGGCG TCCCTCTCAG TGGCTATCCT GAATCCAGCC
 320 HisProValt yrlleValG1 nAspGlyPro ProGlnSerP roProAsnI1 eTyrlTylys Valop+
 1301 CTTCTTGGGG TGCTCCTCCA GTTTAATTC TGCTTGGG GACACCTCTA ACATCTCGC CCCCCTCTGCC CCCCACGCC GGGGGTCCGG GAAGTGAAGA GGGCCGACCA
 1401 GTCTCTGCTCT CCACCTTTAG GATTCCTTAG GATTCCTTCCACT CCCCCTCTC CTGCCCTCCC GTTTGGCCA TCTTGGCCCA CACTATCCTT CCGGGCTGCT
 1501 ATCCCTTTTC CTTGGGGAGG GGCACAGGCT CAGCCTCTTC TCTGACCAT ACCAGGCCAT CCTTGTCCC CTTCACCCACC CAGAGCTAGG GCGGGGANA
 1601 GCGGTGCAAA ACCAACCTG GCGGTGCTTC CCGTGTCCGA GTCCGAGGAG AGACTGCTAC TGGTCCGTA GGAACAGGG GAGTGGGTGG GTCTCGATCC CCGCCCTTCT
 1701 CTTCCCTAGC ATCTCTCTCC CCACATCTCC TTTCACCTTC TTGGCTCTCT ATCTGTGTC TCTCCCTCT TCTTATCTCT TCTTATCTCT CAGACAGATC CAGACAAGA
 1801 CTTAGCTTTC AGCCCTCTT CTGACCTCTC ATACCAACCA CTCCCTCTAG TCTGCCAAA ATGGGGGCCCT TATGGGGAG GCTCTGACAC TCCACCCACAG
 1901 GAGTCCGGTA CCGCTCGTCC CGAGCTAAGA GACCGGACCG GGTCCGGAGA TGTATGANTG AGGTCCGGTAA ACCCCACCAA CCGAGTACTG TCGATGGTAC
 2001 AGATGAGTG TCCCGTTTG TCCACTCGCC AATAGCAAGA TATGAACCG TCGGGACATG TATCGACTTG GTCTGATGCT GAATGGGACA CTGGGGACC
 2101 GAAGTGACTT GCTCCAGACA AGAGGTGACC AGGCCCGGAC AGAAATGGCC TGGGAAGTAG CAGAAGCAGT GCAGCAGGAA CTGGAAGTGC CTTCAATCCAG
 2201 GACAGGAAGT AGCCTCTCTG AAACAGGAAG TGGTCTGGCT GGAATCCAA GTGGCTTAGT CTGGGGGATC AGGAGGTGGG AGGTGGATGG TTCATTATTCT
 2301 GTGGAGAAGA AGGCGGGGA GAACTTCTCT TCAGGAGGAA GCTGGAACTT ACTGACTGPA AGAGGTTAGA GCTGGACCCA
 CACCTCTCTT TCCCGCTCTT CTTGAAGGAA AGTCTCTCTT CGACCTTGAA TCACTGACAT TCTCCAATCT CCACCTGGCT

FIGURE 3A

AL-2b.L 1 GNTCTAGAANTAGTGGATCCCCCGGGGCTGGAGGAAATTCGGAAGGCCCCCT
AL-2b.L 51 GGAAGGGGCTCTGGTGGGGCTGAGCGCTCTGCCCGGGGGGGGGGGGGGGAG
AL-2b.L 101 GAGGAAGCAGGCTCCGCGTGGGCGCTGGGGGGCATCAGGTACCGGGGGTGGTC
AL-2b.L 151 CGGGCTGAAGAGGCCAGGCAGGCCAAGGCAGGCCACCCCGGGGGGTGGGGAG
AL-2b.L 201 TTTGGGGGAAGTTGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
AL-2b.L 251 CCCCCCATTTCTGG
AL-2b.L 301 GGGGTTTTTGG
AL-2b.L 351 CTGGGGGAATAAGAGGGTTCCAGGGCAGAGGGTGGTTATGTGGTGTACCCCTC
AL-2b.L 401 AGATCGGGGACCGGGGTAGAGGTCTCTCGCCCCGGGGGGGGGGGGGGGGGGGG
AL-2b.L 451 CCTCACTCTCTCTCTCTAATTATGAGTTCTACAAGGTGTACCTGGTAGGGGG
AL-2b.L 501 TGGTCAGG GGGGG GGGTGTGAGGGCAGGGGGCTGGGGGAAACCTTCTTCTCA
H10006 1 GGGGA GGGTGTGAGGGCAGGGGGCTGGGGGAAACCTTCTTCTCA
AL-2b.L 551 CTTGTGATCGGGCAGAGCTGGATCTCGGCTTCACCATCAAGTTCAGGAG
H10006 43 CTTGTGATCGGGCAGAGCTGGATCTCGGCTTCACCATCAAGTTCAGGAG
AL-2b.L 601 TATAGCCCTAATGTGTGGGGGACGAGTTCGGCTCGGACCCAGGATTACTA
H10006 53 TATAGCCCTAATGTGTGGGGGACGAGTTCGGCTCGGACCCAGGATTACTA
AL-2b.L 651 CATCATTCGCACATCGGATGGGAGCCGGGGAGG GCT CGAGAGCCTGGAGG
H10006 143 CATCATTCGCACATCGGATGGGAGCCGGGGAGG GCT GAGAGAGCCTGGAGG
AL-2b.L 701 GAG GTGTGTGCTAACCAGAGGCATGAAGGTGCTTCTCGGAGT GGGACAA
H10006 153 GAG GTGTGTGCTAACCAGAGGCATGAAGGTGCTTCTCGGAGT N GAGACAA
AL-2b.L 751 AGT C CCGGAGGAGGGGGCTGTCCCCGAAACCTGTGTGTGAAATGGCCAT
H10006 243 AGT C CCGGAGGAGGGGGCTGTCCCCGAAACCTGTGTGTGAAATGGCCAT
AL-2b.L 801 GGAAGAGAGCCGAGGGGGCAGGCCACAGCCT GAGGCT GGGGAGGAGAA
H10006 293 GGAAGAGAGCCGAGGGGGCAGGCCACAGCCT GAGGCT GGGGAGGAGAA
AL-2b.L 849 CTTGGCAGGTGACCCCAACAGCAAT GAAACCT CCGGGGT CTTGAAGG
H10006 342 CTTGGCAGGTGACCCCAACAGCAAT NCAACCT CCGGGGT TGGT TGAAGG
AL-2b.L 897 CCCCC GGGGCTCCAGCA TGGCTGCA GT GGGTGGGGCAGCAGG
H10006 352 CCCCC TGA CCGCTTCCAGCA TGGCTGCA NTG GTTGGGGCAGCAGG
AL-2b.L 942 GGGG GGGGCTGTGTGTGGGGCTGGGAGGGGGCTGGGGGTGGC
H10006 442 GGGG NGTTT TGGG
AL-2b.L 998 ATGTGTGGGGGAGAGGGGGGGGCAAGCCCTCGGAGAGTGGGGAACCTGG
AL-2b.L 1038 TCGTGGGCTCCCTCGGGAGGGGAGGGTCTCTGGGGCTGGGGGGTGGAGGTG
AL-2b.L 1088 GGATCGGACCTGGGCAAGGTGAGCCTGGGAGGTAGGGATAGGTCTGGGG
AL-2b.L 1138 GGTGGGGGGGGTGGCAGATCCCCCTTCTGGGGGCACTATGAGAGGGTGA

AL-2b.L 1189 TGGTGAATAAGCATCC*GTGTATA*CGTGCAGGATGC*CCCCCCAGA
AL-2b.L 1233 GCGCTCCAAACATCTACTACAGATCGATT*CTGTGTGGAGTGGCCCAT
AL-2b.L 1283 TTGCAT*CGATACAACTGT*TTTCATCGCATCCAAATGCTCCCGTGTCA
AL-2b.L 1338 TACATTCTTATT*CC*GTGCAAGTTATTACGACATCGACTTGGCCGATGA
AL-2b.L 1388 GTTCATTTAGCTTTACGAGCGCTGAACCCATCCATGCCAGGCGTGCAGAGCA
AL-2b.L 1438 CAGATGGGGGAATTCCGATCAGATGGTGT*TCGGGGGGACAGGATCGT
AL-2b.L 1488 GGGTACGGCTCTGT*TTGTGCTTGTGCTTATTCTCTCTCTTGGGAGGCTGA
AL-2b.L 1538 A*ATGCATCAGACGACACTGCTCCGGCAACGGGCCAGTGTGAGGGGGAA
AL-2b.L 1588 GCGGGCCAGCATGGTCCCGTGTGATAGGATTGA*AGAGCTACTGAGATA
AL-2b.L 1638 GGGGCTTCTCAATGAGAGAGCGCAGGCTGCTGTTATCATGGGAACGAG
AL-2b.L 1688 CAGATCAATCATCCCTGGCAGGTCAGGGCAGGAAGTTACTTAGCTTCTCT
AL-2b.L 1738 TCAGCTTCTTCCACAGAAATTTATTATAGGCTTGTTCCAAG*TGTAATGT
AL-2b.L 1788 GTGATCAGATTGGTGGTGGCTGTGAGCTCTGTGCTACCTGGCACTTCCCC
AL-2b.L 1838 TCATGGAAATTCGATATCAAGCTTATCGATACCGTCCACCT

FIGURE 3B

lerk2 1 MA R P G Q R V W L V A M V V W A L C R I A T P L A K N L E F V S W N P K F L S G K G
huHTKL 1 MA V R A D S Y W K Y C W G V L M V - - L C R T A I S K S I V L E F I Y W K S S V S K F L D G Q G
AL2.sht 1 M G P P H S G P G G V R V G A L L L L S V L G L V S G L - - S L E P V Y W H S A N K R F O A E G G
AL2.long 1 M G P P H S G P G G V R V G A L L L L G V L G L V S G L - - S L E P V Y W H S A N K R F O A E G G

lerk2 52 V I Y P K I G D K L D I I C P R A - - E A G R - - P Y E Y Y K L Y L V R P E Q A A A C S T V L D
huHTKL 48 V L Y P Q I G D K L D I I C P K V - - D S K T V G Q Y E Y Y K V Y M V C K D Q A D R C T K K E
AL2.sht 48 Y V L Y P Q I G D R L D L L C P R A R P P G P H S S P N Y E F Y K L Y L V G G A Q G R R C E A P P A
AL2.long 48 Y V L Y P Q I G D R L D L L C P R A R P P G P H S S P N Y E F Y K L Y L V G G A Q G R R C E A P P A

lerk2 95 P N V L V T C N A P E D E I R F T I K F Q E F S P N Y M G L E F K K N K D Y Y I T S T N G S L E G
huHTKL 95 N T P L L N C A K P Q D D I K F T I K F Q E F S P N L W G L E F C K N K D Y Y I I S T N G S L E G
AL2.sht 96 P N L L L T C D R P D L D L R F T I K F Q E Y S P N L W G H E F R S H D Y Y I I A T S D G T R E G
AL2.long 96 P N L L L T C D R P D L D L R F T I K F Q E Y S P N L W G H E F R S H D Y Y I I A T S D G T R E G

lerk2 145 L E N R E G G V C A T R T M K I : N K V C O D P N A V T P E Q L T T S R P S K E A D N T Y K M A T O
huHTKL 145 L D N O E G G V C O T R A M K I L N K V G O C A S S - - - - A G S T A N K C P T R R P E L E A G
AL2.sht 146 L E S L Q G G V C L T R G M K V L L R V G Q S P R G G A V P R K P V E M P N E R D R G A A H S L E
AL2.long 146 L E S L Q G G V C L T R G M K V L L R V G Q S P R G G A V P R K P V E M P N E R D R G A A H S L E

lerk2 195 A P G S R G S L Q D S D G K H E T V N C E E K S G P G A S G G S G D P D G F F N S K V A L F A A V
huHTKL 199 T N G - R S S T T S P F Y K F N P O S S T D O N S A G H S G - - - - N N I L G S E V A L F A G I
AL2.sht 198 P G K E N L P G D P T S N A T S R G A E G P L P P P S M P A V A G A A G G L - - A L L L L G V A
AL2.long 198 P G K E N L P G D P T S N A T S R G A E G P L P P P S M P A V A G A A G G L - - A L L L L G V A

lerk2 245 G A G C V I F L L I I I F L T V L L L K L R K R H R K H T Q - O R A A A L S L S T L A S P K G G S G
huHTKL 272 A S G C I I F I V I I I T L V L L L K Y R R R H R K H S P - G H T T I L S L S T L A I T P K R S G N
AL2.sht 244 G A G G A - - - - M C W R R R R A K P S E E R H P G P G G F G R G G S L G L G G - - - G G G M G
AL2.long 244 G A G G A - - - - M C W R R R R A K P S E E R H P G P G G S F G R G G S L G L G G - - - G G G M G

lerk2 294 T A G T E P S D I I I P L R - - T T E N N Y C P H Y E K V S G C Y G H P V Y I V O E M P P O S P A
huHTKL 292 N Y G S E P S D I I I P L R - - T A D S F C P H Y E K V S G C Y G H P V Y I V O E M P P O S P A
AL2.sht 295 P R E A E P G E L G I A L R G G G A A D P P F C P H Y E K V S G C Y G H P V Y I V O D G P P O S P P
AL2.long 295 P R E A E P G E L G I A L R G G G A A D P P F C P H Y E K V S G C Y G H P V Y I V O D G P P O S P P

lerk2 341 N I Y Y - - - - -
huHTKL 328 N I Y Y - - - - -
AL2.sht 323 N I Y Y - - - - -
AL2.long 335 N I Y Y T S I S V L E W P I L H T I O L F F W R S K C S R V T T F L F P V O V I T T S T O R M T S F

lerk2 343 - - - - - K V - - - - -
huHTKL 332 - - - - - K V - - - - -
AL2.sht 335 - - - - - K V - - - - -
AL2.long 385 S F T T L N P S M O A C R A Q M G E F R I R W C F W G D R I L G T A L F V L V I L L L G R L N M H

AL2.long 435 C T T L L R O R A S V E A E A G O H G P L

FIGURE 4

LERK2.1 1 MA R P G O R S K W L V A M V V W A L C R L A T P L A K N L E P V S S L N P K F L S G K G
 huHTKL 1 MA V R R D S V W K Y C W G V L M V - - - L C R T A I S K S I V L E P I Y W N S S N S K F L P G O G
 ALII.long 1 M G P P H S G P - G G V R V G A L L L - - L G V L G L V S G L S L E P V Y W N S A N K R F O A E G G

LERK2.1 50 L V I Y P K I G D K L D I I C P R A - - E A G R - - P Y E Y K L Y L V R P E O A A A C S T V L D
 huHTKL 48 L V L Y P Q I G D K L D I I C P K V - - D S K T V G Q Y E Y K V Y M V D K D O A D R C T I K K E
 ALII.long 48 Y V L Y P Q I G D R L D L L C P R A R P P G P H S S P N Y E F Y K L Y L V G G A Q G R C E A P P A

LERK2.1 95 P N V L V T C N R P E Q E I R F T I K F O E F S P N Y M G L E F K K H H D Y Y I T S T S N G S L E G
 huHTKL 95 N T P L L N C A K P D O D I K F T I K F O E F S P N L W G L E F O K N K D Y Y I I S T S N G S L E G
 ALII.long 98 P N L L L T C D R P D L D L R F T I K F O E Y S P N L W G H E F R S H H D Y Y I I A T S D G T R E G

LERK2.1 145 L E N R E G G V C R T R T M K I I M K V G O D P N A V T P E Q L T T S R P S K E A D N T V K M A T O
 huHTKL 145 L D N Q E G G V C Q T R A M K I L M K V G O D A S S - - - - A G S T R N K D P T R R P E L E A G
 ALII.long 148 L E S L O G G V C L T R G M K V L L R V G S S P R - - - - - G G A V P R K P V S E M P M E - R

LERK2.1 195 A P G S R G S L G D S D G K H E T V N O E E K S G P G A S G G S S G D P D G F F N S K V A L F A A V
 huHTKL 189 T N G - R S S T T S P F V K P N P G S S T D G N S A G H S G - - - - - N N I L G S E V A L F A G I
 ALII.long 189 D R G A A H S L E P G K E N L P G D P T S N A T S R G A E G - - - - - P L P P S M P A V A G A

LERK2.1 245 G A G C V I F L L I I I F L T V L L L K L R K R H R K H T Q Q R A A A L S L - - - S T L A S P K G G
 huHTKL 232 A S G C I I F I V I I I T L V V L L L K Y R R R H R K H S P Q H T T T L S L - - - S T L A T P K R S
 ALII.long 232 A G G L A L L L L G V A G A G G A M C W R R R R A K P S E S R H P G P G S F G R G G S L G L G G G G

LERK2.1 292 S - G T A G T E P S D I I I P L R - - - T T E N N Y C P H Y E K V S G D Y G H P V Y I V O E M P P Q
 huHTKL 279 G - N N N G S E P S D I I I P L R - - - T A D S V F C P H Y E K V S G D Y G H P V Y I V O E M P P Q
 ALII.long 282 G M G P R E A E P G E L G I A L R G G G A A D P P F C P H Y E K V S G D Y G H P V Y I V O D G P P Q

LERK2.1 338 S P A N I Y Y - - - - -
 huHTKL 325 S P A N I Y Y - - - - -
 ALII.long 332 S P P N I Y Y T S I S V L E W P I L H T I Q L F F M R S K C S R V T T F L F P V Q V I T T S T C R M

LERK2.1 345 - - - - - K V - - - - -
 huHTKL 332 - - - - - K V - - - - -
 ALII.long 382 T S F S F T T L N P S M O A C R A O M G E F R I R W C F W G D R I L G T A L F V L V L I L L L G R L

ALII.long 432 N M H Q T T L L R O R A S V E A E A G H G P L

FIGURE 5